1		PART III UNIT-SPECIFIC CONDITIONS FOR FINAL STATUS	OPERATIONS
2		OPERATING UNIT 11	
3		Integrated Disposal Facility	
4	Chap	ter 1.0	Part A
5	1.0	Part A Introduction	Part III.11.1.iii
6	Integr	ated Disposal Facility Part A, Dangerous Waste Permit	Part III.11.1.1

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1 1.0 PART A INTRODUCTION

- 2 Revision 0, of the Part A, Form 3, included with this permit application, constitutes the initial submittal to
- 3 the Washington State Department of Ecology (Ecology). The Notice of Intent (NOI), associated with this
- 4 unit, was filed with Ecology in November 2001.
- 5 Revision 1, of the Part A, Form 3, was updated to submit with the Revision 1, of the Part B permit
- 6 application. The Part B permit application was submitted February 2004.
- 7 Revision 2, of the Part A Form was updated to the new Ecology Part A application format effective
- 8 January 1 2005, and to reflect the decision to limit the acceptable IDF mixed waste streams. Revision 2
- 9 was submitted February 2005.
- Revision 3, of the Part A Form was updated to clarify the total combined ILAW and Bulk Vitrification
- waste volumes to be accepted at IDF. Revision 3 was submitted March 2005

Part III.11.1.1.iii

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Month	Da	y	Yea	r			App	rove	ed by:	:												Date	e :								
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III. Na	ıme	of F	acil	ity																											
US De	part	men	t of	Ene	ergy -	Н	anf	ord	Facil	lity																					
	US Department of Energy – Hanford Facility V. Facility Location (Physical address not P.O. Box or Route Number) A. Street																														
825 Jac	lwi	ı																													
Ci	ty o	r To	wn																S	tate	Z	РС	ode								
Richla	nd																		W	'A	99	9352									
County Code (if known)	i	С	oun	ty I	Name)																									
0 0	5	В	ento	n																											
В.	C	. Ge	eogr	ар	hic L	oca	atio	n													D	. Fa	cilit	ty E	xis	ten	ce [Date)		
Land Type	L	atitu	de (de	grees	, n	nins	s, s	ecs)		Lo	ngit	tud	e (d	deç	gree	es,	mir	ıs,	secs)	N	lontl	1	ı	Day			Υe	ar		
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St	reet	or F	2.0.	Во	X																										
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Ci	ty o	r To	wn																	State		ZIP (ode	е							
Richla	nd																		1	WA	ġ	9352	2								

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VI. Facility contact (Person to be contacted regard Name (last)	ling waste activ	ities at fa (first)	acility)
Schepens		Roy	
Job Title			Number (area code and number)
Manager		(509) 37	,
Contact Address		(302) 37	0-0077
Street or P.O. Box			
P.O. Box 450			
City or Town		State	ZIP Code
Richland		WA	99352
VII. Facility Operator Information			
A. Name		Phone I	Number (area code and number)
Department of Energy * Owner/Operator CH2MHill Hanford Group, Inc.** Co-Operator for Integ Disposal Facility	grated		6-6677* / (509) 376-7395* 3-1677 **
Street or P.O. Box			
P.O. Box 450 * P.O. Box 1500 **			
City or Town		State	ZIP Code
Richland		WA	99352
B. Operator Type F		,,,,	77002
C. Does the name in VII.A reflect a proposed change	e in operator?		Yes No
If yes, provide the scheduled date f	•	Month	Day Year
D. Is the name listed in VII.A. also the owner? If ye	es, skip to Secti	on VIII.C	· Yes 🔀 No
VIII. Facility Owner Information			•
A. Name		Phone I	Number (area code and number)
Keith A. Klein, Operator/Facility-Property Owner Roy J. Schepens, Operator/Facility-Property Owner*		(509) 37	6-7395 / (509) 376-6677*
Street or P.O. Box			
P.O. Box 550			
City or Town		State	ZIP Code
Richland		WA	99352
B. Operator Type F			
C. Does the name in VII.A reflect a proposed change	•		Yes 🔀 No
If yes, provide the scheduled date f	or the change:	Month	Day Year
IX. NAICS Codes (5/6 digit codes)			
A. First	B. Second		
5 6 2 2 1 Waste Treatment & Disposal		1 1	Administration of Air & Water Resource &
C. Third	D. Fourth		Solid Waste Management Programs

5	4	1	7	1	=					ment i		nces	9	9	9)	9	9	9	Unclassified Establishments
X.	Otl	her	En	viro	nme	ntal	Perr	nits	(see	inst	ruct	ions)							
A. Typ	Perm e	nit		В. І	Perm	it Nur	nber									•	C. De	scrip	tion	
	E]	Non-	Rad	NOC	C for operation (in development)
	Е]	Rad I	NOC	for	operation (in development)
	Е			M	В	L	-	6	0	1	3	1	9	2	3]	Mast	er Bu	ısine	ss License
	Е																			
	Е																			
	Е																			
	Е																			

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

Mixed waste disposed at the IDF will be limited to vitrified low-activity waste (LAW) from the RPP-WTP and Demonstration Bulk Vitrification System (DBVS). Additionally, mixed waste generated by IDF operations will be disposed of in IDF. Vitrified LAW generated by RPP-WTP is known as Immobilized Low Activity Waste (ILAW) and generated by DBVS is known as Bulk Vitrified Waste (BVW). The "Amount" shown in Section XII of 8.2 hectare meters (82,000 cubic meters) is the waste capacity of the initial construction. The "Amount" will be revised as required for future expansion to accommodate the entire waste volume through an approved permit modification.

D80

For the ILAW and BVW that will be in steel canisters or boxes, the characteristic dangerous waste numbers D002, and D004 through D011 that are associated with waste stored in the Double-Shell and Single-Shell Tank System, are listed but anticipated to be treated by the specified technology based treatment standard for high-level radioactive waste as described in 40 Code of Federal Regulations (CFR) 268.40 (vitrification). Tank waste will meet this standard as the waste exits at the Waste Treatment Plant or Demonstration Bulk Vitrification System process. All the dangerous waste numbers are associated with the mixed waste that will be disposed within the Integrated Disposal Facility.

IDF operational activities (including decontamination, cleanup and maintenance) will generate a small amount of waste. Waste that can meet IDF waste acceptance without treatment will be buried at the IDF. All other IDF operational waste will be managed pursuant to WAC 173-303-200 and either sent to a 90 day accumulation area or directly to another permitted TSD for treatment. Treated IDF operational waste will either be buried at IDF or sent to another permitted Hanford TSD for final disposition.

S01

Process Code S01 (container storage) has been included within this Part A, Form in the event that storage is required before final disposal (e.g., to support the staging and confirmation process of the waste or cooling of vitrified waste if required).

Unit Name: Integrated Disposal Facility

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EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

	Se	ctio	n XI	I. Pi	rocess Code Capacities	s and Des	ign				9	Sect	ion XIII. Otl	ner Proces	ss Codes	
			_		B. Process Capac	s Design city	C.				A.		B Process Capa	s Design city	C.	
	ine mber		Proc Code ter co	s	1. Amount	2. Unit of Measure (enter code)	Process Total Number of Units		ine mber		roce Code ter c	s	1. Amount	2. Unit of Measure (enter code)	Process Total Number of Units	D. Process Description
X	1	s	0	2	1,600	G	002	х	1	Т	0	4	700	С	001	In situ vitrification
Х	2	Т	0	3	20	E	001									
Х	3	Т	0	4	700	С	001									
	1	D	8	0	8.2	F	1		1							
	2	S	0	1	*	*	1		2							
	3								3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
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1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
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1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							

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XIV. Description of Dangerous Wastes

Example for completing this section: A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

			Δ	Dan	geroi	us	B. Estimated	C. Unit of						D.	. Pr	oces	ses	
	Line umb			Wast enter	e No.		Annual Quantity of Waste	Measure (enter code)		(1) Pro	ces	s Co	des ((ent	er)		(2) Process Description [If a code is not entered in D (1)]
X	1		D	0	0	2	400	Р	s	0	1	T	0	1				
X	2		D	0	0	1	100	Р	s	0	2	Т	0	1				
X	3		D	0	0	2												Included with above
		1	D	0	0	1	20,000,000	K	D	8	0							Disposal
		2	D	0	0	2		K	D	8	0							Disposal
		3	D	0	0	3		K	D	8	0							Disposal
		4	D	0	0	4		K	D	8	0							Disposal
		5	D	0	0	5		K	D	8	0							Disposal
		6	D	0	0	6		K	D	8	0							Disposal
		7	D	0	0	7		K	D	8	0							Disposal
		8	D	0	0	8		K	D	8	0							Disposal
		9	D	0	0	9		K	D	8	0							Disposal
	1	0	D	0	1	0		K	D	8	0							Disposal
	1	1	D	0	1	1		K	D	8	0							Disposal
	1	2	D	0	1	8		K	D	8	0							Disposal
	1	3	D	0	1	9		K	D	8	0							Disposal
	1	4	D	0	2	2		K	D	8	0							Disposal
	1	5	D	0	2	8		K	D	8	0							Disposal
	1	6	D	0	2	9		K	D	8	0							Disposal
	1	7	D	0	3	0		K	D	8	0							Disposal
	1	8	D	0	3	3		K	D	8	0							Disposal
	1	9	D	0	3	4		K	D	8	0							Disposal
	2	0	D	0	3	5		K	D	8	0							Disposal
	2	1	D	0	3	6		K	D	8	0							Disposal
	2	2	D	0	3	8		K	D	8	0							Disposal
	2	3	D	0	3	9		K	D	8	0							Disposal
	2	4	D	0	4	0		K	D	8	0							Disposal
	2	5	D	0	4	1		K	D	8	0							Disposal

EPA/State ID Number	W	Α	7	8	9	0	0	0	8	9	6	7
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Cc			ion (of S	ectio	on X	IV. Descripti		gero	us	Wast	e_					
Lin Nu		r	'	Dan Wast enter	e No.		B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)		(1) Proc	ess	Code	es (e	Proce	ess	(2) Process Description [If a code is not entered in D (1)]
	2	6	D	0	4	3		K	D 8 0 D 8 0 D 8 0								Disposal
	2	7	W	Т	0	1		K	D		0						Disposal
	2	8	W	Т	0	2		K	D	8	0						Disposal
	2	9	W	Р	0	1		K	D	8	0						Disposal
	3	0	W	Р	0	2		K	D	8	0						Disposal
	3	1	F	0	0	1		K	D	8	0						Disposal
	3	2	F	0	0	2		K	D	8	0						Disposal
	3	3	F	0	0	3		K	D	8	0						Disposal
	3	4	F	0	0	4		K	D	8	0						Disposal
	3	5	F	0	0	5		K	D	8	0						Disposal
	3	6	F	0	3	9		K	D	8	0						Disposal
	3	7	D	0	0	1	600,000	K	S	0	1*						Container Storage
	3	8	D	0	0	2		K	S	0	1*						Container Storage
	3	9	D	0	0	3		K	S	0	1*						Container Storage
	4	0	D	0	0	4		K	S	0	1*						Container Storage
	4	1	D	0	0	5		K	S	0	1*						Container Storage
	4	2	D	0	0	6		K	S	0	1*						Container Storage
	4	3	D	0	0	7		K	S	0	1*						Container Storage
	4	4	D	0	0	8		K	S	0	1*						Container Storage
	4	5	D	0	0	9		K	S	0	1*						Container Storage
	4	6	D	0	1	0		K	S	0	1*						Container Storage
	4	7	D	0	1	1		K	S	0	1*						Container Storage
	4	8	D	0	1	8		K	S	0	1*						Container Storage
	4	9	D	0	1	9		K	S	0	1*						Container Storage
	5	0	D	0	2	2		K	S	0	1*						Container Storage
	5	1	D	0	2	8		K	S	0	1*						Container Storage
	5	2	D	0	2	9		K	S	0	1*						Container Storage
	5	3	D	0	3	0		K	S	0	1*						Container Storage
	5	4	D	0	3	3		K	S	0	1*						Container Storage
	5	5	D	0	3	4		K	S	0	1*						Container Storage
	5	6	D	0	3	5		K	S	0	1*						Container Storage
	5	7	D	0	3	6		K	S	0	1*						Container Storage
	5	8	D	0	3	8		K	S	0	1*						Container Storage
	5	9	D	0	3	9		K	S	0	1*						Container Storage

EPA/State ID Number	W	Α	7	8	9	0	0	0	8	9	6	7
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Line Number A. Dangerous Estimated of Measure (apter code) Quantity of (enter code) (2) Process Description	Con	tinua	tion	of S	ectio	on X	IV. Descripti		gero	us	Wast	е						
Container Storage Cont		or	A				Estimated Annual	-							D. 1	Proc	ess	(O) Process Procesingles
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6 2 D 0 4 3 K S 0 1' Container Storage 6 3 W T 0 1 K S 0 1' Container Storage 6 4 W T 0 2 K S 0 1' Container Storage 6 5 W P 0 1 K S 0 1' Container Storage 6 6 W P 0 2 K S 0 1' Container Storage 6 8 F 0 0 2 K S 0 1' Container Storage 6 9 F 0 0 3 K S 0 1' Container Storage 7 0 F 0 0 4 K S 0 1' Container Storage 7 1 F 0	6	0	D	0	4	0		K	S	0	1*							Container Storage
6 3 W T 0 1 K S 0 1' Container Storage 6 4 W T 0 2 K S 0 1' Container Storage 6 5 W P 0 1 K S 0 1' Container Storage 6 6 W P 0 2 K S 0 1' Container Storage 6 8 F 0 0 1 K S 0 1' Container Storage 6 9 F 0 0 2 K S 0 1' Container Storage 7 0 F 0 0 4 K S 0 1' Container Storage 7 1 F 0 0 5 K S 0 1' Container Storage 7 2 F 0	6	1	D	0	4	1		K	S	0	1*							Container Storage
6 4 W T 0 2 K S 0 1' Container Storage 6 5 W P 0 1 K S 0 1' Container Storage 6 6 W P 0 2 K S 0 1' Container Storage 6 8 F 0 0 1 K S 0 1' Container Storage 6 9 F 0 0 3 K S 0 1' Container Storage 7 0 F 0 0 4 K S 0 1' Container Storage 7 1 F 0 0 5 K S 0 1' Container Storage 7 2 F 0 3 9 K S 0 1' Container Storage 7 5 . .	6	2	D	0	4	3		K	S	0	1*							Container Storage
6 5 W P 0 1 K S 0 1' Container Storage 6 6 W P 0 2 K S 0 1' Container Storage 6 7 F 0 0 1 K S 0 1' Container Storage 6 8 F 0 0 2 K S 0 1' Container Storage 7 0 F 0 0 3 K S 0 1' Container Storage 7 1 F 0 0 5 K S 0 1' Container Storage 7 1 F 0 0 5 K S 0 1' Container Storage 7 2 F 0 3 9 K S 0 1' Container Storage 7 7 6 9	6	3	W	Т	0	1		K	S	0	1*							Container Storage
6 6 W P 0 2 K S 0 1' Container Storage 6 7 F 0 0 1 K S 0 1' Container Storage 6 8 F 0 0 2 K S 0 1' Container Storage 7 0 F 0 0 4 K S 0 1' Container Storage 7 1 F 0 0 5 K S 0 1' Container Storage 7 2 F 0 3 9 K S 0 1' Container Storage 7 3 Image: Container Storage 7 4 Image: Container Storage	6	4	W	Т	0	2		K	S	0	1*							Container Storage
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7 3 7 4 7 5 7 6 7 7 7 8 7 9 8 0 8 1 8 2 8 3 8 4 8 5 8 6 8 7 8 8 8 9 9 0	7	1	F	0	0	5		K	S	0	1*							Container Storage
7 4 7 5 7 6 7 7 7 8 7 9 8 0 8 1 8 2 8 3 8 4 8 5 8 6 8 7 8 8 9 9	7	2	F	0	3	9		K	S	0	1*							Container Storage
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	8	9																
9 1	9	0																
	9	1																
	9	2																
9 3	9	3																

WA7890008967, Part III Operating Unit 11 Attachment 52 April 9, 2006

XV. Map

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).

XVIII. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator* Name and Official Title (type or print) Roy J. Schepens, Manager U.S. Department of Energy Office of River Protection	Signature	Date Signed
Co-Operator** Name and Official Title (type or print) Edward S. Aromi President and Chief Executive Officer CH2MHill Hanford Group, Inc.	Signature	Date Signed
Co-Operator** — Address and Telephone Number 2440 Stevens Center P.O. Box 1500 Richland, WA 99352 (509) 373-1677		
Facility-Property Owner* Name and Official Title (type or print) Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Signature	Date Signed

Unit Name: Integrated Disposal Facility

Date: 3/25

Revision 3

WA7890008967, Part III Operating Unit 11 Attachment 52 April 9, 2006

Comments

OFFICIAL USE ONLY

Unit Name: Integrated Disposals Facility Revision: 3 Date: 3/2005

This section has been identified as
"Official Use Only" (OUO)
and is available to view by appointment at the
Nuclear Waste Program Resource Center
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Richland, Washington

Please contact Valarie Peery at (509) 372-7920 for a viewing appointment.

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